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APPLICATION NO.	FILING DATE	, FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/627,732	07/28/2003	Kiyoshi Kasai	240905US0	3797	
22850	7590 06/27/2006		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			YANG, NELSON C		
., .,	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
	,		1641		
				DATE MAILED: 06/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No. Applicant(s)						
		10/627,732	KASAI ET AL.					
		Examiner	Art Unit					
		Nelson Yang	1641					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHICH - Extens after S - If NO p - Failure Any re	RTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DATE ions of time may be available under the provisions of 37 CFR 1.13 X (6) MONTHS from the mailing date of this communication. eriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, oly received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMI 16(a). In no event, however, m rill appty and will expire SIX (6) cause the application to becor	UNICATION. ay a reply be timely filed MONTHS from the mailing date of this c ne ABANDONED (35 U.S.C. § 133).					
Status								
2a)	Responsive to communication(s) filed on <u>09 M</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. ice except for formal i	• •	e merits is				
Dispositio	n of Claims							
5)	Claim(s) <u>1-5</u> is/are pending in the application. a) Of the above claim(s) <u>3-5</u> is/are withdrawn claim(s) is/are allowed. Claim(s) <u>1 and 2</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or							
Applicatio	n Papers							
9)□ ⊤	he specification is objected to by the Examine	г.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority un	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 2/25/04.	Paper	iew Summary (PTO-413) No(s)/Mail Date e of Informal Patent Application (PTC	O-152j				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of group I, claims 1-2 in the reply filed on May 9, 2006 is acknowledged. The traversal is on the ground(s) that the Office has not set forth any grounds where the invention of group I could be used in patterning or filtratioin. This is not found persuasive because as shown in Steckler et al [US 4,036,788], the polymer of group I could be used purification (filtration) of water (abstract). Applicant further argues that many patents have been issued in which more than two subclasses have been searched. The Office does not dispute this assertion, and notes that more than two subclasses will probably be searched during the prosecution of this application, even with the election of a single invention. However, there would exist a burden of search, as the additional inventions would require the search of classes and subclasses that presumably would not have been necessary, and would thus divert the resources needed by the Office to provide a more thorough and complete search.

Since applicant has not provided any arguments why the invention would not have worked in patterning or filtration, the requirement is still deemed proper and is therefore made FINAL.

2. As was noted in the previous office action:

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter

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of right if the amendment is presented prior to final rejection or allowance, whichever is earlier.

Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brower* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

3. Claims 3-5 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in the reply filed on May 9, 2006.

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Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 5. Claims 1-2 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 6. With respect to claim 1, applicant recites the limitation of "a physiologically active substance having an interaction with a substance to be measured". It is unclear if the physiologically active substance is actually interacting with the substance to be measured, or if it is merely capable of interacting with the substance to be measured. Currently, the limitation is assumed to refer to the latter interpretation.
- 7. Claim 2 recites the limitation "the radically polymerizable vinyl group having a strong acid group" in the last two lines. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Steckler [US 4,036,788].

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With respect to claim 1, Steckler et al teach hydrogels comprising a styrene sulfonic acid (p-vinyl-benzenesulfonic acid) (column 4, lines 49-55, claim 1), a compound with the formula CH₂=CHCO(OCH₂CH₂)₂OH (claims 1, 4) at a concentration of about 0 to 50 weight % (claim 1), and a heterocyclic N-vinyl monomer at a concentration of about 20 to 95 weight % (claim 1). Streckler et al teach that the hydrogels may be ground into particles such as a powder (column 11, lines 25-30) or rods (column 11, lines 65-67). Streckler et al further teach that hydrogels may be complexed with biologically active materials such as chemicals, basic drugs and other pharmaceuticals, hormones, enzymes (column 14, lines 29-57).

10. With respect to claim 2, Steckler et al teach hydrogels comprising a styrene sulfonic acid (p-vinyl-benzenesulfonic acid) (column 4, lines 49-55, claim 1)

Conclusion

- 11. No claims are allowed.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nelson Yang whose telephone number is (571) 272-0826. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long V. Le can be reached on (571)272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nelson Yang Patent Examiner Art Unit 1641

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600